

ZORIN O. D. and KHLEBNIKOV, A. Ye.

Tipy kineticheskogo obezuglerozhivaniya i gazosoderzhaniye v metalle.

report submitted for the 5th Physical Chemical Conference on Steel Production  
Moscow, 30 Jun 1959.

ZORIN, O.D.

Device for a simultaneous withdrawal of specimens of gas and metal  
from the steel smelting furnace. Zav.lab. 25 no.3:375-376 '59.

(MIRA 12:4)

1. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii.  
(Metallurgical laboratories--Equipment and supplies)

AUTHOR: Zorin, O. D.

Sov/165-58-2-11/46

TITLE: The Effect of the Technological Parameters of the Melt on the Oxygen Content in Metals (Vliyaniye tekhnologicheskikh parametrov plavki na sodержaniye kisloroda v metalakh)

PERIODICAL: Nauchnyye doklady vysshey shkoly. Metallurgiya, 1958, Nr 2, pp. 72-76 (USSR)

ABSTRACT: The author carried out experiments to determine the dependence of the oxygen content in the metals on the technological parameters. The oxygen content of the metals is in general dependent on the carbon content, however, also the operation conditions of the melting process influence it. The dependence of the oxygen content in the metals on the temperature was discussed. Within the melting period an increase of the oxygen content is found with an increase in temperature. Within the period of boiling the oxygen concentration in the metals is stabilized at 1590-1640°C. At higher temperatures the oxygen content in the metals decreases. The effect of the concentration of the iron oxides in the iron slag also effects the oxygen content of the metals. The dependence between the oxygen content of the metals and the iron oxide content in the slag was found. The effect of

Card 1/2

The Effect of the Technological Parameters of the Melt on the Oxygen Content  
in Metals

SOV/163-56-2-11/46

an increased blowing of oxygen into the metallic melt leads to  
an increase of the oxygen content.  
There are 3 figures and 11 references, 7 of which are Soviet.

ASSOCIATION: Moskovskiy Institut stali (Moscow Steel Institute)

SUBMITTED: November 13, 1957

Card 2/2

ZORIN, O.D.

Using methods of mathematical statistics for research and automatic control of the process of decarburizing an open-hearth furnace bath. Met. i gornorud. prom. no.3:20-24 My-Je '64.

(MIRA 17:10)

ZORIN, P. (Novosibirsk)

More on stimuli and quality. Sov. torg. 36 no.3:36-37 Apr '63.

(MIRA 16:3)

(Novosibirsk--Commercial products--Quality control)

ZORIN, P.

How efficient are the orders? Sov.torg. 35 no.4:30-31 Ap '62.  
(MIRA 15:4)

1. Rukovoditel' promtovarnoy gruppy obshchestvennogo otdela  
torgovli, Novosibirsk.  
(Novosibirsk--Clothing Industry)

ZORIN, P. (Yaroslavl')

Some problems in fire prevention in industrial enterprises.  
Posh.delo 5 no.12:13-14 D '59. (MIRA 13:4)  
(Yaroslavl—Chemical plants—Fires and fire prevention)



ZORIN, P.

What if the matter had been treated in a way other than formal?  
Pozh.delo 9 no.5:7-8 My '63. (MIRA 16:5)

Q. Nachal'nik Upravleniya pozharney okhrany Yaroslavskoy oblasti.  
(Yaroslavl Province--Fires and fire prevention)

ZORIN, Petr Alekseyevich, inzh.; KRYLOV, Nikolay Vital'yevich, inzh.,  
arkhitekt; MARTYNOV, Pavel Timofeyevich, inzh.; RAZINKOV, P.,  
red.; LIL'YE, A., tekhn.red.

[Handbook for rural builders; building materials, details, and  
construction elements] V pomoshch' sel'skomu stroitel'iu; stroi-  
tel'nye materialy, detali i konstruktsii. Moskva, Mosk.rabochii,  
1959. 438 p. (MIRA 13:5)

(Building)

ZORIN, P.A.; MARTYNOV, P.T.; SOBOLEV, M.A., nauchnyy redaktor; GRINBERG, S.M., redaktor; GLADIKH, N.N., tekhnicheskiy redaktor.

[Local unfired building materials] Mestnye bezobzhigovye stroitel'nye materialy. Moskva, Gos.isd-vo lit-ry po stroit.materialam, 1956. 122 p. (NLRA 10:6)  
(Building materials)

GLAGOLEV, Aleksey Fedorovich, inzh.; ZORIN, P.A., inzh., nauchnyy red.;  
GORDEYEV, P.A., red.isd-vz; MEDVEDEV, L.Ya., tekhn.red.

[Simplest methods of building on collective farms; a handbook for  
leaders of collective farm construction crews] Stroitel'stvo v  
kolkhozakh prosteyshimi sposobami; posobie dlia brigadirov  
stroitel'nykh brigad kolkhozov. Moskva, Gosizd-vo lit-ry po  
stroit., arkhitekt. i stroit.materialam, 1958. 287 p. (MIRA 12:3)  
(Farm buildings) (Building)

RAKIN, L.A.; ZORIN, P.A., starshiy inzhener

Mechanization of repairs of metallurgical furnaces in  
the "Serp i Molot" Plant. Metallurg 6 no.9:34 S '61. (MIRA 14:9)

1. Zamstitel' nachal'nika tsekha remonta metallurgicheskikh  
pechey zavoda "Serp i molot" (for Rakin). 2. Zavod "Serp i  
molot" (for Zorin).

(Metallurgical furnaces—Maintenance and repair)

ZORIN, Petr Alekseyevich; RAZINKOV, P., red.; YEGOROVA, I., tekhn.red.

[Making bricks in collective-farm enterprises] Proizvodstvo  
kirpicha na kolхозnykh predpriyatiyakh. Moskva, Mosk.rabochi, 1959. 169 p. (MIRA 12:12)

(Brickmaking)

ZORIN, Petr Alekseyevich, inzh.; KRILOV, Nikolay Vital'yevich,  
inzh.-arkhitekt [deceased]; MARTINOV, Pavel Il'mofdyovich,  
inzh.; RAZIMKOV, P., red.; PAVLOVA, S., tekhn.red.

[Helping rural builders] V pomoshch' sel'skoma stroitel'm.  
Izd.2., perer. 1 dop. Moskva, Mosk.rabochii, 1960. 494 p.  
(MIRA 14:4)

(Construction industry)

SHMARGANER, Yeva Markovna; ZORIN, P.D., nauchnyy red.; CHACHEVA, A.V.,  
red.; SHAPENKOVA, T.A., ~~tekh.~~ red.

[Maintenance of lace machines] Obsluzhivanie kruzhevnoi ma-  
shiny. Moskva, Izd-vo nauchno-tekhn. lit-ry RSFSR, 1961. 156 p.  
(MIRA 15:3)

1. Zamestitel' nachal'nika kruzhevnogo tsekha Moskovskoy kru-  
zhevnoy i gardinno-tyulevoy fabriki imeni Tel'mana (for Zorin).  
(Knitting machines) (Lace and lace making)



ZORIN, P.M.

Akhtyrskaya Hospital for medicinal baths. Vop. kur. fizioter. i lech.  
fiz. kul't. 25 no. 3:268-269 Ky-Je '60. (MIRA 14:4)

1. Iz kozhno-venerologicheskogo kabineta Akhtyrskoy medikosanitarnoy  
chasti tresta "Abinneft".

(ABINSKII DISTRICT (KRASNODAR TERRITORY)--MINERAL WATERS)

ZORIN, P.M. (Poselok Akhtyrskiy)

Fixed erythema following use of phthivazid. Vest.derm. i ven. 32  
no.1:77 Ja-F '58. (MIRA 11:4)  
(SKIN--DISEASES) (ISONICOTINIC ACID)

ABAKUMOVSKIY, D.D., inzh.; VIKEMAN, Yu.L., inzh.; VODOVOZOV, A.I., inzh.;  
ZORIN, R.P., inzh.; IGNATCHENKO, Ye.A., inzh.; LITINSKIY, M.E., inzh.;  
SAZONOV, A.I., inzh.; PRITULA, V.A., inzh.; POMAZKOV, S.A., inzh.;  
FRUKHTBEYN, L.I., inzh.; SAPOZHNIKOV, N.M., inzh.; MASYUK, A.I., inzh.;  
YANKELEV, L.F., inzh.; BASHILOV, N.M., otv. red.; LATINSKIY, M.E., red.;  
POLOSINA, A.S., tekhn. red.

[Handbook for buidlers and assemblers of the petroleum industry]  
Spravochnik stroitelia-montazhnika neftianoi promyshlennosti. Mo-  
skva, Gostoptekhizdat, 1946. 250 p. (MIRA 15:4)

1. Russia(1923- U.S.S.R.) Narodnyy komissariat neftyanoy promysh-  
lennosti. Glavnoye upravleniye. 2. Narodnyy komissariat neftyanoy  
promyshlennosti SSSR (for all except Bashilov, Latinskiy, Polosina).  
(Petroleum industry)

ZORIN, S. (Leningrad)

"Self-service grocery stores" by I.A.Ivanov. Reviewed by S. Zorin.  
Sov. torg. 35 no.9:52-53 S '62. (MIRA 16:2)  
(Grocery trade) (Ivanov, I.A.)

ZORIN, S. (Leningrad)

Methods for determining the need of storage space. Sov. torg 33  
no.10:18-21 0 '59. (MIRA 13:1)  
(Warehouses)

KUST, V., kand.ekonom.nauk (Leningrad); ZORIN, S., kand.ekonom.nauk (Leningrad);  
ZHDANOVA, S., kand.ekonom.nauk (Leningrad).

Textbook on the organization and technology of trade. Sov. targ.  
37 no.11:47-48 N '63. (MIRA 16:12)

FORST, S.; WERNER, G.

Manufactured goods stores should work in new way. Sov. press.

35 no.11:36-37 N '61.

(REF. 14:10)

(Leningrad--Retail trade)

TEKUCHEV, H.P., gornyy inzh. (g. Stalino); ZORIN, S.I. gornyy inzh.,  
(g.Stalino)

Use of the longwall retreating to the rise system and of the  
pillar and stall method in the "Nikanor" mine. Ugol' 35 no.5:25-  
27 My '60. (MIRA 13:7)

(Donets Basin--Coal mines and mining)



S/263/62/000/022/001/002  
E073/E435

AUTHOR: Zorin, S.M.

TITLE: Measurement of the torques of micromotors under transient conditions of operation

PERIODICAL: Referativnyy zhurnal, otdel'nyy vypusk.  
Izmeritel'naya tekhnika, no.22, 1962, 18,  
abstract 32.22.114. (Tr. Kazansk. aviats. in-ta,  
no.59, 1960, 69-73)

TEXT: In this arrangement a motor under test is fitted on a rocking frame to which a moving contact is attached and is continuously rocked at a frequency set by an audiofrequency oscillator. The amplitude of the oscillations is limited by fixed contacts connected into the metering circuit. If there is no torque on the motor shaft both operating contacts are closed for the same time. Torque developed on the shaft is transmitted to the stator and causes changes in this time, so that under steady-state conditions, the difference between the average values of the currents in the circuits of the two contacts can be measured on a differential milliammeter. Under transient conditions the

Card 1/2

Measurement of the torques ...

S/263/62/000/022/001/002  
E073/E435

time for which one of the operating contacts remains closed is recorded by a loop connected via an amplifier to an indicator unit ("passive attachment"). A mathematical analysis and formulae are given which enable unequivocal determination of the shaft torque from the measured closed times of the contacts. 4 figures, 3 references.

[Abstracter's note: Complete translation.]

Card 2/2

ZORIN, V.

Attention, students at work. Okhr.truda i sots.strakh. no.9:  
33-36 S '59. (MIRA 13:1)  
(Vocational education--Safety measures)

*Zorin, V.M.*  
ZORIN, V.M.

Epidemiological significance of different age groups of *A. maculipennis*  
in Vitebsk Province. Med.paraz. i paraz.bol. supplement to no.1:13  
'57. (MIRA 11:1)

1. Is byvshey Vitebskoy oblastnoy protivomalyariynoy stantsii.  
(VITEBSK PROVINCE--MOSQUITOES AS CARRIERS OF DISEASE)

ZORIN, Petr Aleksayevich; RAZINKOV, P., redaktor; YEGOROVA, I., tekhnicheskii redaktor

[Manufacturing roofing tiles on collective farms] Proizvodstvo  
cherepitsy v kolхозakh. [Moskva] Mosk.rabochii, 1957, 94 p.  
(Tiles, Roofing) (MIRA 10:8)

ZORIN, P. A.

building of dwellings from unburned materials; adobe, raw bricks, earthen blocks, and clay with twigs Moskva, 1942. 7, p. (Stakhanovskaja Biblioteka, 1942. no 7) (54-53462)

TR1421.26

ZORIN P.P.

Koefitsiyent Neravnomernosti Pri Razrabotke Slantsevykh Mastorozhdeniy,

Goryuchiye Slantsy, 1933, No. 3, 5.

SO; Goryuchiye Slantes #1934-35 TN. 871 G74

ZORIN, R.

"Ekonomika i organizacja pracy" (Economics and the organization of labor), a journal of the Polish Institute of Economics and Industrial Organization. Sots.trud no.4:115-119 Ap '56. (MLRA 9:11)

(Poland--Labor and laboring classes--Periodicals)



ZORIN, R.

"Handel Zagraniczny," the foreign trade journal published by the  
Polish Chamber of Commerce. Vnesh.torg.26 no.12:25-26 D '56.  
(Poland--Commerce--Periodicals) (MLRA 10:2)

ZORIN, R.

"SUCCESSSES IN THE DEVELOPMENT OF THE NATIONAL ECONOMY OF  
POLAND"

Vneshnyaya Totgovlya, No 4, Moscow 1956, pp 5-10.

Translation M-1282, 8 Nov 56.

~~ZORIN R.~~

Successes in the development of Poland's national economy. Vnesh.  
torg. 26 no.4:5-10 Ap '56. (MLRA 9:8)  
(Poland--Economic conditions)

ZORIN, S.

Initiative and amateur performances are the pledge of success. Kryn.rod.  
4 no.6:6-7 Je '53. (MIRA 6:6)  
(Aeronautics--Study and teaching)

ZORIN, S., kand. ekon. nauk; KOCHOVALOV, K.

Overall mechanization of a store. Sov. tozr. no. 7:30-35 J1 '59.  
(MIRA 11:7)  
(Materials handling)

ZORIN, S., kandidat ekonomicheskikh nauk.

Centralized delivery of goods in Leningrad Province. Sov. torg. no.9:  
25-28 S '56. (MLRA 9:11)  
(Leningrad Province--Delivery of goods)

ABATUROV, A.I.; VINOGRADOV, M.A.; DUBROVA, G.B.; LOTOREV, L.M.; ZORIN, S.M.;  
VASIL'YEV, A.A.; VOLOKITIN, A.S.; BUKOVITSKIY, A.K.; PEMAZKOV, N.S.;  
MEZENTSEV, P.V.; YEGORKIN, N.I.; DANILOV, M.M.; LUKASHEV, M.Ya.;  
MEYEROVICH, I.L.; KLYUCHEV, A.Ye.; SARYCHEV, V.O.; LAVILOVICH, M.A.;  
NOVOSEL'SKIY, N.M.; GITLITS, S.A.; REZNICHENKO, M.S.; MOROZ, L.P.;  
KHETAGUROVA, F.V.; CHOGOVADZE, Sh.K.; RYBCHINSKO, A.A.; BOCHAROVA, N.P.;  
GAGLOYEVA, N.A.; KRYUKOVA, T.B.

Rubinshtein, Grigori Leonidovich; 1891-1959. Sov. torg. 33 no.12:56  
D '59. (MIRA 13:2)

(Rubinshtein, Grigori Leonidovich, 1891-1959)

ZORIN, S.P.		PROCESSES AND PROPERTIES INDEX																																																																																																					
CA		20																																																																																																					
<p>Gypsum and anhydrites of Bashkiria. N. P. Zorin.  <i>Keramika</i> 1940, No. 8, 27-41. --Characteristics are given  of several kinds of gypsum and anhydrite and of anhy-  drite cement and sliz blocks made from it. N. P. Z.</p>																																																																																																							
ASB-35.11 METALLURGICAL LITERATURE CLASSIFICATION																																																																																																							
<table border="1"> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td><td>31</td><td>32</td><td>33</td><td>34</td><td>35</td><td>36</td><td>37</td><td>38</td><td>39</td><td>40</td><td>41</td><td>42</td><td>43</td><td>44</td><td>45</td><td>46</td><td>47</td><td>48</td><td>49</td><td>50</td><td>51</td><td>52</td><td>53</td><td>54</td><td>55</td><td>56</td><td>57</td><td>58</td><td>59</td><td>60</td><td>61</td><td>62</td><td>63</td><td>64</td><td>65</td><td>66</td><td>67</td><td>68</td><td>69</td><td>70</td><td>71</td><td>72</td><td>73</td><td>74</td><td>75</td><td>76</td><td>77</td><td>78</td><td>79</td><td>80</td><td>81</td><td>82</td><td>83</td><td>84</td><td>85</td><td>86</td><td>87</td><td>88</td><td>89</td><td>90</td><td>91</td><td>92</td><td>93</td><td>94</td><td>95</td><td>96</td><td>97</td><td>98</td><td>99</td><td>100</td> </tr> </table>				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100				





ZORIN, S. P.

ZORIN, S. P.

6575

ZORIN, S. P. ANSIDRITOVYI TSEMENT I MESTOY YERO  
ISPOL'ZOVANIYA V STROITEL'STVE. V POMOSHNI  
PROIZVOESTVU. UFA, BASHKIR. KK. IZD., 1954 68 S.  
S ILL 20 SM (ADAE. NAUK SSSR BASHKIR. FILIAL AKADE.  
NAUK SSSR. GORN-GEOL. IN-T) 1.000000Z 1 R 35 K.  
BIBLIOGR. e 65-66. -(55-2846) P 691.54 plus 693. 5 plus  
(016.3)

SO: 'NIZHANYA LETOPIS' NO. 6, 1955

ZORIN, Sergey Petrovich, prof., doktor tekhn.nauk; KRAUZH, Sergey Nikolayevich, kand.geologo-mineralog.nauk; BUDNIKOV, P.P.; red.; VAKHRUSHEV, G.V., doktor geologo-mineralog.nauk, prof., zasluzhennyy deyatel' nauki Bashkirskoy ASSR, red.; OSTASHEVSKAYA, G.A., red.; ZATNULLINA, G.Z., tekhn.red.

[Gypsum from Bashkiria and its use in construction] Gipsy Bashkirii i ikh ispol'zovanie v stroitel'stve. Pod red. P.P. Budnikova i G.V.Vakhrushova. Ufa, Bashkirskoe knazhnoe izd-vo, 1959. 229 p.  
(MIRA 13:3)

1. Chlen-korrespondent Akademii nauk SSSR; deyствitel'nyy chlen Akademii nauk USSR (for Budnikov).  
(Bashkiria--Gypsum)

GAKHENSON, Boris Semenovich, dotsent; ZORIN, Stanislav Pavlovich, inzh.;  
VORONIN, M. I., inzh., red.; MIKHAYLOVA, L. G., red. ind-vn;  
SHIEKOVA, R. Ye., tekhn. red.

[The TDT-75 timber skidding tractor) Trelevochnyi traktor  
TDT-75. Pod obshchey red. M. I. Voronina, Moskva, Goslesbumizdat,  
1962. 292 p. (MIRA 16:6)  
(Tractors) (Lumber—Transportation)

IL'INSKIY, B.D.; PETRENKO, L.I.; ZORIN, S.V., red.; PINEGIN, I.I.,  
red. izd-va; ISLENT'YEVA, P.G., tekhn. red.

[Safety regulations in pipe rolling and pipe welding  
industries] Pravila bezopasnosti v truboprokatnom i  
trubosvarochnom proizvodstvakh. Moskva, Metallurgizdat,  
1962. 119 p. (MIRA 1614)

1. Professional'nyy soyuz rabochikh metallurgicheskoy  
promyshlennosti. Tsentral'nyy komitet.  
(Pipe mills--Safety measures)  
(Welding--Safety measures)

KOSTIN, L.G., inzh.; ZABRODSKIY, D.A., inzh.; ZORIN, S.V., inzh.; BUCHIK,  
L.T., inzh. SANZHAREVSKIY, O.G., inzh.

Rolling of fastening parts. Mashinostroenie no.6:67-68 N-D '64  
(MIRA 18:2)

ZORIN, S.V., red.; EVENSON, I.M., tekhn. red.

[Safety regulations in the coke by-product industry] Pravila bezopasnosti v koksokhimicheskom proizvodstve. Moskva, Metallurgizdat, 1960. 39 p.  
(MIRA 14:11)

1. Professional'nyy soyuz rabochikh metallurgicheskoy promyshlennosti. Tsentral'nyy komitet.  
(Coke industry—Safety measures)

ZORIN, S.V., red.; EVENSON, I.M., tekhn.red.

[Safety regulations in the production of ferroalloys] Pravila  
bezopasnosti v ferrosplavnom proizvodstve. Moskva, Gos.nauchno-  
tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1960.  
34 p.  
(MIRA 13:7)

1. Soyuz rabochikh metallurgicheskoy promyshlennosti SSSR.  
TSentral'nyy komitet.  
(Iron alloys--Metallurgy)  
(Metallurgical plants--Safety measures)



ZORIN, S.V., red.; KLEYMAN, M.R., tekhn.red.

[Industrial safety and sanitation regulations in the wire and  
nail industries] Pravila bezopasnosti i promyshlennoi sanitarii  
v provolochnom i gvozdil'nom proizvodstvakh. Moskva, Gos.nauchno-  
tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1960. 43 p.  
(MIRA 13:11)

1. Soyuz rabochikh metallurgicheskoy promyshlennosti. Tsentral'nyy  
komitet.

(Wire industry--Safety measures)

(Factory sanitation)

DUNAYEVSKIY, M.M.; IL'INSKIY, B.D.; SINEBRYUKHOV, N.V.; ZORIN, S.V.,  
red.; MIKHAYLOVA, V.V., tekhn.red.

[Safety regulations in sintering plants] Pravila bezopasnosti  
v aglomeratsionnom proizvodstve. Moskva, Gos.nauchno-tekhn.  
izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1960. 44 p.

(MIRA 13:11)

1. Soyuz rabochikh metallurgicheskoy promyshlennosti SSSR.  
TSentral'nyy komitet. 2. Vsesoyuznyy nauchno-issledovatel'skiy  
institut organizatsii proizvodstva i truda chernoy metallurgii  
(VNIIOCHERMET) (for Dunayevskiy, Il'inskiy, Sinebryukhov).

(Sintering--Safety measures)

(Metallurgical plants--Safety measures)

IL'INSKIY, B.D.; PETRENKO, L.I.; SINEBRYUKHOV, N.V.; DUNAYEVSKIY, M.M.;  
ZORIN, S.V., red.; MIKHAYLOVA, V.V., tekhn.red.

[Safety regulations in the electric steel smelting industry]  
Pravila bezopasnosti v elektrostaleplavil'nom proizvodstve.  
Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po cherno i tsvetnoi  
metallurgii, 1960. 94 p. (MIRA 13:11)

1. Soyuz rabochikh metallurgicheskoy promyshlennosti SSSR,  
TSentral'nyy komitet. 2. Vsesoyuznyy nauchno-issledovatel'skiy  
institut organizatsii proizvodstva i truda chernoy metallurgii  
(VNIIOCHERMET) (for Il'inskiy, Petrenko, Sinebryukhov, Dunayevskiy).  
(Steel--Electrometallurgy)  
(Metallurgical plants--Safety measures)

ZORIN, S.V., red.; KLEYMAN, M.R., tekhn.red.

[Safety rules in the refractories industry] Pravila bezopasnosti v огнеупорном производстве. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po cherno i tsvetnoi metallurgii, 1960. 50 p. (MIRA 13:7)

1. Soyuz rabochikh metallurgicheskoy promyshlennosti SSSR. Tsentral'-nyy komitet. 2. Technicheskii inspektor Tsentral'nogo komiteta profsoyuza (for Zorin).

(Refractories industry--Safety measures)

IL'INSKIY, B.Yu.; DUMAYEVSKIY, M.M.; SINIBRYUKHOV, N.Y.; ZORIN, S.V.,  
red.; KLEYMAN, M.R., tekhn.red.

[Safety regulations in the blast-furnace process] Pravila  
bezopasnosti v domennom proizvodstve. Moskva, Gos.nauchno-  
tekhn.isd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1960.  
87 p. (MIRA 13:7)

1. Soyuz rabochikh metallurgicheskoy promyshlennosti SSSR.  
TSentral'nyy komitet.  
(Blast furnaces--Safety measures)

IL'INSKIY B.D.; GUR'YEV, V.S.; MARADUDIN, G.I.; ZORIN, S.V., red.;  
PINEGIN, I.I., red.izd-va; GINZBURG, R.Ya., tekhn. red.

[Safety regulations in the bessemer steel production process]  
Pravila bezopasnosti v konvertnom proizvodstve stali. Mo-  
skva, Metallurgizdat, 1963. 79 p. (MIRA 17:3)

1. Professional'nyy soyuz rabochikh metallurgicheskoy pro-  
myshlennosti. TSentral'nyy komitet.

DUNAYEVSKIY, M.M.; IL'INSKIY, B.D.; SINEBRYUKHOV, N.V.; VORKEL', M.M.;  
ZORIN, S.V., red.; DOBUZHINSKAYA, L.V., tekhn.red.

[Safety regulations in rolling-mill practice] Pravila bez-  
opasnosti v prokatnom proizvodstve. Moskva, Gos.nauchno-tekhn.  
izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1960. 112 p.  
(MIRA 13:7)

1. Soyuz rabochikh metallurgicheskoy promyshlennosti. Tsentral'-  
nyy komitet. 2. Vsesoyuznyy nauchno-issledovatel'skiy institut  
organizatsii proizvodstva i truda chernoy metallurgii (for Du-  
nayevskiy, Il'inskiy, Sinebryukhov, Vorkel').  
(Rolling mills--Safety measures)

IL'INSKIY, B.D.; DUMAYEVSKIY, M.M.; SINEBRYUKHOV, N.V.; PETRENKO, L.I.;  
ZORIN, S.V., red.; DOBUZHINSKAYA, L.V., tekhn.red.

[Safety regulation in the open-hearth process] Pravila bez-  
opasnosti v martenovskom proizvodstve. Moskva, Gos.nauchno-tekhn.  
izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1960, 127 p.  
(MIRA 13:7)

1. Soyuz rabochikh metallurgicheskoy promyshlennosti SSSR,  
TSentral'nyy komitet.

(Open-hearth furnaces--Safety measures)



ZORIN, V.

Advice to young drivers. Za rul. no.6:13 Ja '57. (MIRA 10:7)  
(Juvenile automobile drivers)

ZORIN, V.

Extinct animals. Vokrug sveta no.7:26-28 J1 '54. (MLRA 7:8)  
(Extinct animals)

ZORIN, V.

The corrosion processes taking place under a drop of solution. V. Zorin. *J. Phys. Chem.* (U. S. S. R.) 11, 834-43 (1936). The character and the degree of corrosion of Fe under drops of salt solns. depend on the nature of the salt, and especially on its cation. Solns. (0.1 N) of Li, K, Na, NH<sub>4</sub>, Mg, Ba, Mn, Co, Zn, Hg, Cu, Al, Fe, Sn and Pt on two samples of Fe containing, resp., 840.018 and 0.018% P, 0.010 and 0.05% Mn, 0.00005 and 0.52%, C 0.017 and 0.20% and S none and 0.07%, were studied. Drops of the solns. of the salts of alkali metals formed during corrosion of Fe an alk. zone on the periphery of the drop, and a free acid in its center. Drops of solns. of other salts do not spread out. No free base and free acid are formed in them. The spreading of the drops depends on the properties of the cation of the salt, and on the corroding metal, but does not depend on the anion of the salt. Under the drops of solns. of basic metals the corrosion starts immediately below the edges where the first rust is formed. The oxidation  $Fe^{2+} \rightarrow Fe^{3+}$  does take place not on the surface of the metal, but on the surface layer of the drop on the air-soln. border. Under the drop edges the corrosion takes place not because of the presence of a free base, but because of the oxidation of Fe by the dissolved O. The presence of O affects the corrosion velocity of the metal. The corrosion of Fe under the drops of salt solns. of even basic metals does not take place in accordance with the principles of differential aeration. 11 references. W. R. Krenn

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

ZABALUYEV, V.; ZORIN, V.

Guarantee of success lies in team work. Sov.profsoiuny 7 no.4:19-22  
Nr '59. (MIRA 12:4)

1. Predsedatel' Novosibirskogo sovnaarkhoza (for Zabaluyev). 2. Predse-  
datel' Novosibirskogo oblssovprofa (for Zorin).  
(Novosibirsk Province—Labor productivity)

ZORIN, V.

"Answer to Zaretskiy on his Criticism of My Article, 'The Process of Corrosion under Dripping'". Zhur. Fiz. Khim. 13. No. 7, 1939.

Report U-1615, 3 Jan. 1939.

ZORIN, V.

Electric current! Danger! Politekh. obuch. no. 10:46-51 0 '57.  
(Electric engineering--Safety measures) (MLBA 10:9)

ZORIN, Y.

I. P. Pavlov and infant and child nutrition. *Pediat. listy*, Praha  
7 no. 6:354-357 Nov-Dec 1952. (OLML 24:2)

1. Of the First Pediatric Clinic (Head--Prof. J. Svejcar, M.D.) of  
Charles University, Prague.

ZORIN, Vladimir, MUDr

Importance of the Pavlovian theory for pediatrics. *Pediat. listy*,  
Praha 9 no.6:322-329 Dec 54.

1. Detske oddeleni KUNZ Usti n.L., predn. MUDr V.Zorin  
    (PHYSIOLOGY  
    Pavlovian theory in pediatrics)  
    (PEDIATRICS  
    Pavlovian theory)



ZORIN, Vladimir

Organization of care of hemolytic disease of newborn. I.  
Cesk. pediat. 12 no.5-6:486-493 May-June 57.

1. Detske oddeleni KUNZ v Usti n. L., prednosta prim. MUDr.  
V. Zorin.

(ERYTHROBLASTOSIS, FETAL, ther.  
pre- & postnatal care (Cs))

ZORIN, Vladimir

Experiences of regional center for exchange transfusion for hemolytic disease of newborn. Cas. lek. cesk. 96 no. 24-25: 773-777 21 June 57.

1. Detské oddelení KUNZ v Ústí n. L., přednosta prim. MUDr. V. Zorin. V. Z., Ústí n. L., Fucikova tr. 243.

(ERYTHROBLASTOSIS, FETAL, ther.

exchange transfusion, statist. (Cz))

(BLOOD TRANSFUSION, in various dis.

exchange, in fetal erythroblastosis, statist. (Cz))

ZORIN, V. (g.Kurgan)

Landing on terrain selected from the air. Kryn.rod. 11 no.9:13  
S '60. (MIRA 13:9)

(Airplanes--Landing)

ZORIN, V.; DOBROVOL'SKIY, N.

Suggestions prompted by life. Olchr.truda i notes.strakh.  
no.10:20-22 0 '59. (MIRA 13:2)

1. Predsedatel' Novosibirskogo oblastnogo soveta profsoyuzov  
(for Zorin). 2. Zaveduyushchiy otделom okhrany truda Novosibir-  
skogo oblsovprofa (for Dobrovol'skiy).  
(Novosibirsk Province--Industrial hygiene)  
(Factories--Design and construction)

ZORIN, Vladimir, MUDr.

~~Experience with the health community system in care of children. Czech.~~  
zdravot. 6 no.6:290-298 June 58.

1. Detake oddeleni KUNZ Usti nad Labem.

(CHILD WELFARE,

health community serv. in Czech. (Cz))

L 06456-67 ENT(m)/EWP(1) IJP(c) GG/RM

ACC NR: AR024546

(A)

SOURCE CODE: UR/0089/66/021/001/0064/0066

AUTHOR: Berlyant, S. M.; Drozdov, V. Ye.; Finkel', E. E.; Orlenko, P. A.; Suroyegin, L. M.; Bregor, A. Kh.; Karpov, V. L.; Zorin, V. A.

ORG: none

TITLE: Large-scale radiation cross linking of polyethylene insulation of cable products

SOURCE: Atomnaya energiya, v. 21, no. 1, 1966, 64-66

TOPIC TAGS: radiation chemistry, polyethylene, polymer cross linking, insulated wire, electric cable/ KP gamma ray apparatus

ABSTRACT: In view of the many advantages resulting from the use of irradiated thermally stabilized polyethylene as insulation in cables, the authors describe apparatus developed for the irradiation of such insulation, for use in geophysical cables for very deep well drilling (o.d. 6.5 mm, length ~9 km, weight ~380 kg, volume ~400 l), capable of withstanding temperatures up to 200C and pressures higher than 300 atm. The entire cable was wound on a drum and exposed to  $\gamma$  radiation from  $Co^{60}$  (total activity 180,000 g-equivalent of radium) from the KP-200 apparatus. Measures taken to ensure uniformity of the gamma radiation, which is an essential factor in the success of the operation, are described. The required dose was 140 Mrad ( $\pm 10\%$ ). At a dose intensity of 63 r/sec and an irradiation time of 610 hr, the productivity of the apparatus was 0.7 kg/hr and the efficiency ~15%. The authors thank G. N. Lisov

Card 1/2

UDC: 621.039.55: 541.15

L 06456-67

ACC Nr: AR5024546

for participating in the development of the apparatus, and M. Ye. Yeroshov, M. D. Larionov, L. K. Topil'skiy, Yu. D. Kozlov, and the late N. A. Suznetsov for help with the experiments. Orig. art. has: 5 figures.

SUB CODE: 07, 20/ SUBM DATE: 16Oct65/ ORIG REF: 007

Card

2/2

ZORIN, V.F.; TSVETNOY, S.M.

Apparatus for checking the armatures of miniature machines.  
Sborn. st. RIIZHT no.45:70-76 '64. (MIRA 19:1)



ZORIN, V. K.

AID P - 980

Subject : USSR/Engineering

Card 1/1 Pub. 28 - 3/9

Authors : Tanatar, A. I. and Zorin, V. K.

Title : Squirrel cage induction motors with screened end rings

Periodical : Energ. byul., #10, 15-17, 0 1954

Abstract : A method of improvement of starting torque in the induction motor suitable for continuous and interrupted running is discussed. This improvement to Stern's double ring system and the combination of Iosifov's system with starting rods and Shturman's open circuit in squirrel cage was satisfactory tested. Four drawings, 1 table and 5 Russian references (1951-1952).

Institution : None

Submitted : No date

ZORIN V.K.

TANATAR, A.I.; ZORIN, V.K.

Short-circuited induction motors with shielded end rings of the squirrel cage. Energ. biul. no.10:15-18 Q '54. (MIRA 7:11)  
(Electric motors, Induction)

TANATAR, A.I.; ZORIN, V.K.

Increasing the reliability of long-travel brake electromagnets of  
the KMT type. Prom.energ. 16 no.6:24 Jp '61. (MIRA 15:1)  
(Hoisting machinery--Brakes) (Electromagnets)

ZORIN, V.K.

Automatic device for facilitating the driving of a car.  
Avt.prom. 28 no.1:45-46 Ja '62. (MIRA 15:2)

1. Dnepropetrovskiy inzhenerno-stroitel'nyy Institut.  
(Automobiles--Apparatus and supplies)

ZORIN, V.M.; ZABLOTSKAYA, A.N.

Data for the standardization of the indices of bacterial contamination of boiled sausage products. Vop.pit 21 no.4:85-86 J1-Ag '62.

(MIRA 15:12)

1. Iz Vitebskoy oblastnoy sanitarno-epidemiologicheskoy stantsii.  
(SAUSAGES—MICROBIOLOGY)

ZORIN, V.M.

Creating reducing turbodrills; a topic for discussion. Neft.khoz.  
38 no.8:45-47 Ag '60. (MIRA 13:8)  
(Turbodrills--Hydraulic drive)

ZORIN, V. N.  
CA

2 2

The performance and calculation of flash condensers. V. N. Zorin and I. G. Kostin. *Repts. Govt. Petroleum Research Inst. (Moscow) 1932, 00:100.* The expl. procedure is described and calcns. are presented. A. A. B.

ASAC-SLR METALLURGICAL LITERATURE CLASSIFICATION

ZORIN, V.N.; KONYUKHOV, I.N.; VINOGRADOV, B.N.; CHERNOBYL'SKIY, A.G.;  
ALEKSANDROV, V.S.

Reduction turbodrill for drilling slim and deep wells. Trudy  
MINKHIGP 46:27-34 '64. (MIRA 17:6)



ZORIN, V. N.

"Methods of Hydrodynamic Calculation of Turbines of a Turbodrill on the Basis of Potential Flow around the Vanes." Cand Tech Sci, Moscow Order of the Labor Red Banner Petroleum Inst imeni Academician I. M. Gubkin, 2 Mar 54. Dissertation (Vechernyaya Moskva Moscow, 22 Feb 54)

SO: SUM 186, 19 Aug 1954

ZORIN, V.N.

AID P - 1125

Subject : USSR/Mining

Card 1/1 Pub. 78 - 3/25

Author : Zorin, V. N.

Title : ~~XXXXXXXXXXXXXXXXXXXX~~  
Determination of consumption of drilling fluid and working pressure drop in the turbo-drill by P. P. Shumilov's method

Periodical : Neft. knoz., v. 32, #11, 10-15, N 1954

Abstract : Discussion of P. P. Shumilov's and P. A. Ioannsyanyan's methods is presented with an analysis of basic equations for fluid consumption and pressure drop. The output of the fluid pump is related to the technological conditions of the oil well casing, working conditions of the turbo-drill (pressure drop momentum and shaft speed), and technical and economic considerations. One chart, 1 table and 5 Russian references (1943-1953).

Institution : None

Submitted : No date



ZORIN, V. P.

7630. ZORIN, V. P. -- Kontrol'nyye zadaniya i metodicheskiye ukazaniya po kursu "tekhnologiya metallov i dereva". dlya zauch. otd-niy tekhnikumov mekhanizatsii sel'skogo khozyaystva. utr 29/kh 1954 g. (M., 1954). 28 s. 20 sn. (upr. ucheb. zavedeniy glav. upr. podgotovki kadrov M-va sel'skogo khozyaystva SSSR. vsesoyuz. zauch. s. -- kh. tekhnikum). 8.000 ekz. b. ts. -- v kontse teksta avt: V. P. Zorin --bez tit. l. i obl. -- (55-3870)  
621.7/9 & 674.02) (071.4)

SO: Knizhnaya Letopis', Vol. 7, 1955

ZORIN, Vladimir Petrovich; SOLODUN, G.A., red,

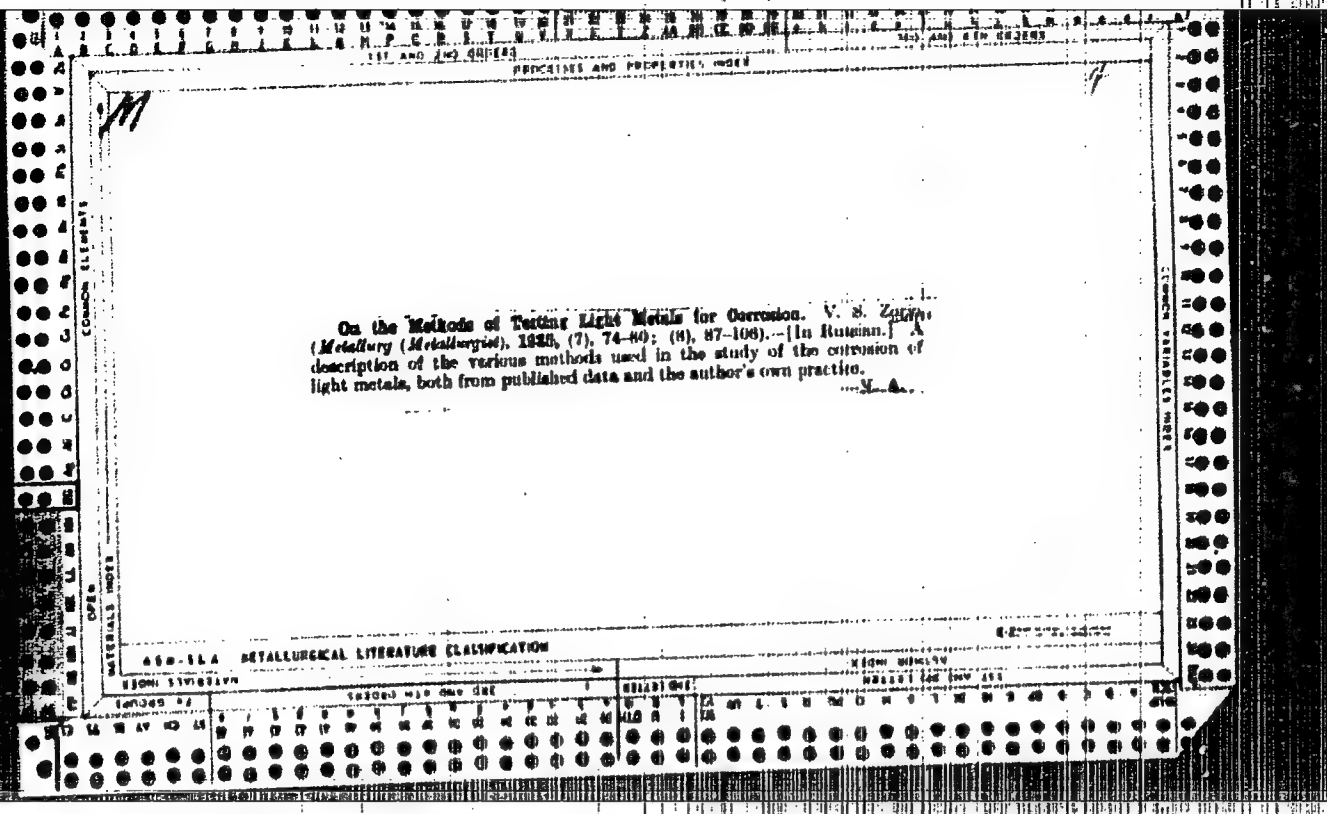
[Arithmetic in construction] Arifmetika po stroitel'nomu  
delu; sbornik pravil, primerov i zadach. Kiev, Gossel'-  
khozizdat USSR, 1963. 251 p. (MIRA 16:5)  
(Arithmetic)

"Corrosion of the Bimetal 'Ferran.'" V. N. Kozin (Vyski Nautika-Lodki-  
*Nauchnoye Issledovanie Legkikh Metallov*—*"NIIHALUMINI"* (Transactions of the  
*Scientific Research Institute for Light Metals*—*"NIIHALUMINI"*), 1948,  
 (1-2), 74-81).—[In Russian.] The corrosion of the bimetal Ferran by sodium  
 chloride, sodium carbonate, and acetic acid solutions, dilute sulphuric acid,  
 tap water, ammonia gas, hydrogen sulphide, carbon dioxide, foodstuffs, and  
 fish products was investigated. In all cases the aluminium layer was found  
 to be porous, the porosity being inversely proportional to its thickness and  
 giving rise to pitting by all the liquid reagents. Sodium carbonate solution  
 produced stripping of the aluminium layer. The gases gave no corrosion.  
 D. N. H.

ASH-554 METALLURGICAL LITERATURE CLASSIFICATION

*\*Corrosion of the Bimetal Iron-Copper. V. K. Zolotarevskiy, Moscow-  
Isledovatel'skiy Institut Legkoy Metalloz "NII ALUMINI" (Trans-  
actions of the Scientific Research Institute for Light Metals "NII AL-  
UMINI"), 1932, (5), 44-50. - [In Russian.] Corrosion tests in sheet  
(1-2 mm), strip, and various utensils of a composite metal produced by roll-  
ing sheet iron between two copper sheets and subsequently tinning, have been  
made in tap-water and solutions of sodium chloride, sodium carbonate, acetic  
acid, and malic acid. Owing to its plastic nature, the copper layer (0.05-  
0.17 mm, thick) is non-porous, and hence does not give an iron-copper couple  
which promotes corrosion, and does not peel off the iron. The mechanical*

*properties of the composite sheet are unaltered after the corrosion tests, and  
it is considered to be a suitable substitute for pure copper in cooking utensils.  
D. N. B.*





100		101		102		103		104		105		106		107		108		109		110		111		112		113		114		115		116		117		118		119		120		121		122		123		124		125		126		127		128		129		130		131		132		133		134		135		136		137		138		139		140		141		142		143		144		145		146		147		148		149		150		151		152		153		154		155		156		157		158		159		160		161		162		163		164		165		166		167		168		169		170		171		172		173		174		175		176		177		178		179		180		181		182		183		184		185		186		187		188		189		190		191		192		193		194		195		196		197		198		199		200		201		202		203		204		205		206		207		208		209		210		211		212		213		214		215		216		217		218		219		220		221		222		223		224		225		226		227		228		229		230		231		232		233		234		235		236		237		238		239		240		241		242		243		244		245		246		247		248		249		250		251		252		253		254		255		256		257		258		259		260		261		262		263		264		265		266		267		268		269		270		271		272		273		274		275		276		277		278		279		280		281		282		283		284		285		286		287		288		289		290		291		292		293		294		295		296		297		298		299		300		301		302		303		304		305		306		307		308		309		310		311		312		313		314		315		316		317		318		319		320		321		322		323		324		325		326		327		328		329		330		331		332		333		334		335		336		337		338		339		340		341		342		343		344		345		346		347		348		349		350		351		352		353		354		355		356		357		358		359		360		361		362		363		364		365		366		367		368		369		370		371		372		373		374		375		376		377		378		379		380		381		382		383		384		385		386		387		388		389		390		391		392		393		394		395		396		397		398		399		400		401		402		403		404		405		406		407		408		409		410		411		412		413		414		415		416		417		418		419		420		421		422		423		424		425		426		427		428		429		430		431		432		433		434		435		436		437		438		439		440		441		442		443		444		445		446		447		448		449		450		451		452		453		454		455		456		457		458		459		460		461		462		463		464		465		466		467		468		469		470		471		472		473		474		475		476		477		478		479		480		481		482		483		484		485		486		487		488		489		490		491		492		493		494		495		496		497		498		499		500		501		502		503		504		505		506		507		508		509		510		511		512		513		514		515		516		517		518		519		520		521		522		523		524		525		526		527		528		529		530		531		532		533		534		535		536		537		538		539		540		541		542		543		544		545		546		547		548		549		550		551		552		553		554		555		556		557		558		559		560		561		562		563		564		565		566		567		568		569		570		571		572		573		574		575		576		577		578		579		580		581		582		583		584		585		586		587		588		589		590		591		592		593		594		595		596		597		598		599		600		601		602		603		604		605		606		607		608		609		610		611		612		613		614		615		616		617		618		619		620		621		622		623		624		625		626		627		628		629		630		631		632		633		634		635		636		637		638		639		640		641		642		643		644		645		646		647		648		649		650		651		652		653		654		655		656		657		658		659		660		661		662		663		664		665		666		667		668		669		670		671		672		673		674		675		676		677		678		679		680		681		682		683		684		685		686		687		688		689		690		691		692		693		694		695		696		697		698		699		700		701		702		703		704		705		706		707		708		709		710		711		712		713		714		715		716		717		718		719		720		721		722		723		724		725		726		727		728		729		730		731		732		733		734		735		736		737		738		739		740		741		742		743		744		745		746		747		748		749		750		751		752		753		754		755		756		757		758		759		760		761		762		763		764		765		766		767		768		769		770		771		772		773		774		775		776		777		778		779		780		781		782		783		784		785		786		787		788		789		790		791		792		793		794		795		796		797		798		799		800		801		802		803		804		805		806		807		808		809		810		811		812		813		814		815		816		817		818		819		820		821		822		823		824		825		826		827		828		829		830		831		832		833		834		835		836		837		838		839		840		841		842		843		844		845		846		847		848		849		850		851		852		853		854		855		856		857		858		859		860		861		862		863		864		865		866		867		868		869		870		871		872		873		874		875		876		877		878		879		880		881		882		883		884		885		886		887		888		889		890		891		892		893		894		895		896		897		898		899		900		901		902		903		904		905		906		907		908		909		910		911		912		913		914		915		916		917		918		919		920		921		922		923		924		925		926		927		928		929		930		931		932		933		934		935		936		937		938		939		940		941		942		943		944		945		946		947		948		949		950		951		952		953		954		955		956		957		958		959		960		961		962		963		964		965		966		967		968		969		970		971		972		973		974		975		976		977		978		979		980		981		982		983		984		985		986		987		988		989		990		991		992		993		994		995		996		997		998		999		1000		1001		1002		1003		1004		1005		1006		1007		1008		1009		1010		1011		1012		1013		1014		1015		1016		1017		1018		1019		1020		1021		1022		1023		1024		1025		1026		1027		1028		1029		1030		1031		1032		1033		1034		1035		1036		1037		1038		1039		1040		1041		1042		1043		1044		1045		1046		1047		1048		1049		1050		1051		1052		1053		1054		1055		1056		1057		1058		1059		1060		1061		1062		1063		1064		1065		1066		1067		1068		1069		1070		1071		1072		1073		1074		1075		1076		1077		1078		1079		1080		1081		1082		1083		1084		1085		1086		1087		1088		1089		1090		1091		1092		1093		1094		1095		1096		1097		1098		1099		1100		1101		1102		1103		1104		1105		1106		1107		1108		1109	
-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	-----	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--	------	--

1ST AND 2ND GROUPS										PROCESSES AND PROPERTIES INDEX									
<p>CA</p> <p>Corrosion of light metals and of their alloys by metallic mercury. V. S. Zoln. <i>Korrosiya</i> 4, No. 2, 143-7(1938); <i>Khim. Refert. Zhur.</i> 2, No. 2, 137(1939).—The corroding action of metallic Hg was investigated on Al with small admist. of impurities, on duralumin, on Mg (99.99%), on Mg (tech.), on the AZ "elektron" and on the ZS "elektron". The rolled metals (except Mg, which was cast) were tested. Drops of Hg were added to the metals and the corrosion processes were investigated. The largest amt. of corrosion was observed on the metal alloys (especially on the tech. Mg and on the "elektron"), while pure Mg was almost immune to corrosion. The velocity and the degree of corrosion increased with the increase of the humidity of the atm. and they did not depend on its compn. (the expts. were also performed in H<sub>2</sub>O, A and CCl<sub>4</sub>). The protective films on the metals preserved the metals, but did not ensure abs. protection from Hg corrosion.</p> <p>W. R. Henn</p>																			
<p>ASM-A METALLURGICAL LITERATURE CLASSIFICATION</p>																			

SOV/76-33-3-31/39

5(4) .  
 AUTHORS: Palatnik, L. S., Zorin, V. S.  
 TITLE: On the Theory of Transformation of Metastable Phases  
 PERIODICAL: Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 8, pp 1859-1865  
 (USSR)  
 ABSTRACT: An approximation expression for the difference in the free energies of two phases is derived. The transformation kinetics of metastable phases is basically determined by the difference  $\Delta\phi$  of the spatial free energies of the "old" and "new" phases, as well as by the values of the surface tension  $\sigma$  at the interphase borders. These two values must be known for investigations of the temperature function of the rate of formation of crystallization centers (RFCC); the linear crystallization growth, for the so-called step rule (SR); etc. Reference 1 used an approximation formula (1) for the determination of  $\Delta\phi$ . It had the form of a Taylor polynomial. Since, however, (1) holds only for the vicinity of the transformation temperature  $T_{12}$ , a Taylor polynomial of second order (2) must be used for more precise calculations. By means of (2), the (SR) is explained in the present case. Whether the (SR) is complied with or not depends, above all, on the (RFCC) and the separation of the stable and metastable phases.

Card 1/2

On the Theory of Transformation of Metastable Phases SOV/76-33-8-31/39

and is therefore also dependent upon the ratio of specific heat, value  $\alpha$ , the transformation heat, and the equilibrium temperatures of the respective phases. The limiting temperature is determined for the range in which the (SN) is fulfilled or not fulfilled, and this is explained by way of the example of saturated water vapor chilled to a below zero temperature (centigrade), since both ranges are to be found with it. From the results obtained, the surface tension of ice was calculated  $\alpha_{ice} = (0.97 \pm 0.02) \alpha_{water}$ . By means of the polynomial (2), the position of the maximum of (RFCC) was determined (Equation 23). The value obtained is closer to the experimental value than the one obtained in reference 1 by means of polynomial (1). There are 7 references, 4 of which are Soviet.

ASSOCIATION: Politekhnikheskiy institut im. V. I. Lenina (Polytechnic Institute imeni V. I. Lenin), Gosudarstvennyy universitet im. A. M. Gor'kogo, Khar'kov (State University imeni A. M. Gor'kiy, Khar'kov)

SUBMITTED: February 14, 1958

Card 2/2

24 (2)

AUTHORS:

Palatnik, I. S., Zorin, V. S.

SOT/20-126-6-30/67

TITLE:

On the Theory of the Formation of a New Phase on the Decomposition of Solid Solutions (K teorii zarozhdeniya novoy fazy pri raspade tverdykh rastvorov)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 6, pp 1254 - 1257 (USSR)

ABSTRACT:

Formula (1) gives the critical number of atoms in the nucleus of a crystal on the decomposition of a solid solution. Next, equation (10) is expanded with an assumption of probability, to compute the number of centers originating with the formation of the new phase. The two-phase decomposition is then the object of further investigation, and the regulation of the enriched zones is assumed to proceed from the zones in the initial stage. The mean size of the regulating zones is then computed with the method of successive approximation. The authors confine themselves to the second approximation and give equation (17). There are 1 figure and 5 references, 1 of which is Soviet.

Card 1/2

On the Theory of the Formation of a New Phase on the Decomposition of Solid Solutions SOV/20-126-6-30/67

ASSOCIATION: Khar'kovskiy politekhnicheskiy institut im. V. I. Lenina  
(Khar'kov Polytechnic Institute imeni V. I. Lenin). Khar'kov-  
skiy gosudarstvennyy universitet im. A. M. Gor'kogo (Khar'kov  
State University imeni A. M. Gor'kiy)

PRESENTED: March 23, 1959, by S. A. Vekshinsky, Academician

SUBMITTED: March 23, 1959

Card 2/2

PALATHIK, L.S.; ZORIN, V.S.

Investigation of thermodynamic systems with a nonzero defect  
the concentration matrix. Zhur. tekhn. fiz. 28 no.11:2635-2642  
N '58. (MIRA 12:1)

(Matrix mechanics) (Phase rule and equilibrium)

AUTHORS: Palatnik, L. S., Landau, A. I., 76-32-3-17/43  
Zorin, V. S.

TITLE: Phase Diagrams of Thermodynamic Systems With a Non-maximum Rank of the Concentration Matrix (Diagrammy sostoyaniy termodinamicheskikh sistem s nemaksimal'nyy rangom matritsy kontsentratsiy)

PERIODICAL: Zhurnal Fizicheskoy Khimii, 1958, Vol. 32, Nr 3, pp. 608-615 (USSR)

ABSTRACT: In studying equilibrium diagrams, the basic method of topology is used, whereby geometrical figures are divided into their simplest elements - simplexes. Hyperconnodes are such elements.

By this method, it is possible to facilitate the analytical investigations of the phase-equilibrium conditions. The present paper investigates diagrams of equilibrium systems in which a non-zero effect of the matrix of concentration  $\sigma$  is possible. Equations for systems with a certain number of phases are given, and then considerations of the problems of diagram topology for equilibrium of

Card 1/3



Phase Diagrams of Thermodynamic Systems With a Non-Maximum Rank of the Concentration Matrix 76-32-3-17/43

these systems, with the use of a given position matrix that is denoted as an expanded position matrix, are explained. From the derivation of hyperconnode systems with a non-maximum rank of the concentration matrix it follows that by the degeneration of the hyperconnodes, a contract boundary of the separating domains is attained, where this region of boundary contacts is considered as a characteristic domain. Some examples of characteristic domains for equilibrium diagrams of three-component and four-component systems are given, where the concentration matrices and the diagrams of isobars are given. The hyperconnodes on the diagram  $P, T, X_1$  represent simplexes with the magnitude  $l = r - 1 - M - \sigma$ , where for the case  $M + \sigma > 0$  (the characteristic domain) the simplexes appear degenerate. In the conclusion, it is emphasized that the study of the hyperconnodes may facilitate further investigations of the systems with  $\sigma > 0$  and of the processes occurring in them, where systems of a non-maximum rank can also be investigated.

Card 2/3

Phase Diagrams of Thermodynamic Systems With a Non- 76-32-3-17/43  
Maximum Rank of the Concentration Matrix

There are 4 figures and 7 references, 7 of which are  
Soviet

ASSOCIATION: Khar'kovskiy gosudarstvennyy universitet im. A. M. Gor'kogo,  
Khar'kovskiy politekhnicheskii institut im. V. I. Lenina  
(Khar'kov State University imeni A. M. Gor'kiy,  
Khar'kov Polytechnic Institute imeni V. I. Lenin)

SUBMITTED: November 12, 1956

Card 3/3

ZORIN, V.

On the air routes of English. Grazhd, av. 28 no. 6:24 Je 1965.  
(MIRA 18:6)

ZORIN, V.S., red.; PLETNEV, E.P., red.; YUDANOV, Yu.I., red.;  
YEROKHOVA, Ye.A., tekhn. red.

["Common Market" is a tool of monopolies] "Obshchii rynok" -  
orudie monopolii. Pod red. V.S.Zorina i E.P.Pletneva. Mo-  
skva, Izd-vo IMO, 1963. 387 p. (MIRA 16:6)

1. Moscow. Institut mezhdunarodnykh otnosheniy.  
(European Economic Community)  
(Europe, Western--Trusts, Industrial)